Appl. No. : 10/593,004

Filed: September 14, 2006

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A negative resist composition comprising a silsesguioxane resin (A) comprising a constituent unit (a1) represented by the following general formula (I):

OH
$$R^{1}$$

$$+SiO_{3/2}$$

wherein R¹ represents a linear or branched alkylene group having 1 to 5 carbon atoms, and a constituent unit (a2) represented by the following general formula (II):

[Chemical Formula 2]

[Chemical Formula 1]

$$\begin{array}{c} \\ \\ \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c}$$

, an acid generator component (B) which generates an acid upon exposure, and a crosslinking agent component (C), wherein said silsesquioxane resin (A) comprises 50 to 95 mol% of the constituent unit (a1) and 5 to 40 mol% of the constituent unit (a2), and wherein said acid generator component (B) and said crosslinking agent component (C) are selected from a combination of an onium salt containing a fluorinated alkylsulfonic acid ion as an anion (B) and a glycoluril-based or melamine-based crosslinking agent (C), a combination of an oxime sulfonate-based acid generator (B) and an ethyleneurea-based crosslinking agent (C), or a combination of a mixture of an oxime sulfonate-based acid generator and a diazomethane-based acid generator (B) and an ethyleneurea-based crosslinking agent (C).

Appl. No. : 10/593,004

Filed: September 14, 2006

2. (**Original**) The negative resist composition according to claim 1, wherein the silsesguioxane resin (A) further comprises a constituent unit (a3) represented by the following general formula (III):

[Chemical Formula 3]

$$OR^3$$

$$\cdots (III)$$

$$R^2$$

$$-SiO_{3/2}$$

wherein R² represents a linear or branched alkylene group having 1 to 5 carbon atoms, and R³ represents a linear or branched alkyl group having 1 to 5 carbon atoms.

- 3. (Currently amended) The negative resist composition according to claim 4 2, wherein the silsesguioxane resin (A) comprises 50 to 95 mol% of the constituent unit (a1), 5 to 40 mol% of the constituent unit (a2) and 0 to 20 mol% of the constituent unit (a3).
- 4. (Original) The negative resist composition according to claim 1, wherein a weight average molecular weight (Mw) of the silsesguioxane resin (A) is 1,000 or more and 15,000 or less.
- 5. (**Original**) The negative resist composition according to claim 1, which further comprises a nitrogen-containing organic compound (D).
- 6. (**Original**) The negative resist composition according to claim 1, which is used in a two-layer resist method comprising the steps of providing an organic layer on a substrate and providing a resist layer on the organic layer; patterning the resist layer to form an upper resist

Appl. No. : 10/593,004

Filed

September 14, 2006

pattern; patterning the organic layer by dry etching using the upper resist pattern as a mask to form a lower resist pattern; and forming a pattern on the substrate by etching using the upper resist pattern and the lower resist pattern as a mask.

- 7. (Original) The negative resist composition according to claim 1, which is used in a magnetic film pattern forming method comprising the step of patterning a magnetic film by ionic etching using the resist pattern formed on the magnetic film as a mask.
- 8. (Original) The negative resist composition according to claim 1, which is used in a magnetic film pattern forming method comprising the step of patterning a magnetic film by ionic etching using a lift-off pattern comprising a base film pattern formed on the magnetic film and a resist pattern formed on the base film pattern.
- 9. (Original) The negative resist composition according to claim 1, which is used in a resist pattern forming method comprising the step of subjecting a resist layer to electron beam selective exposure.